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AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A peptide consisting of 18 amino acids, the peptide having the primary structure: 8 AA - Cysteine - 2 AA - Citrulline - 1 AA -Cysteine – 4 AA (SEQ ID NO:4); wherein the peptide contains a peptide turn comprising at least one citrulline residue, and wherein said peptide is specifically recognised by rheumatoid arthritis autoimmune antibodies from patients suffering from rheumatoid arthritis; and wherein the peptide is a cyclic peptide.
- 2. (Cancelled)

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- 3. (Previously Presented) A peptide according to claim 1 characterised in that said peptide is biotinylated.
- 4. (Previously Presented) A peptide according to claim 1 characterised in that said peptide is a synthetic peptide.
- 5.-7. (Cancelled)
- 8. (Currently Amended) A peptide according to claim 1 characterised in that the amino acids acid flanking the citrulline residue on the amino-terminal side of the citrulline residue is are selected from glycine and or serine, and/or the amino acid flanking the citrulline residue on the carboxy-terminal side of the citrulline residue is glycine.
- 9. (Previously Presented) A peptide according to claim 1 comprising the amino acid sequence:

QDTIHGHPCSXXGCRPGY (SEQ ID NO: 12) or QDTIVGWGCDSXGCRPGQ (SEQ ID NO: 17).

- 10.-11. (Cancelled)
- 12. (Currently Amended) A diagnostic kit for use in detecting autoantibodies present in the sera of patients with rheumatoid arthritis, said kit comprising at least one peptide

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- according to claim 1, with said peptide or antibody optionally bound to a solid support.
- 13. (Currently Amended) A diagnostic kit according to claim 12, said kit comprising a range of peptides according to claim 1, optionally in combination with antigens that constitute immunogenic determinants for other auto-immune diseases, wherein said peptides are attached to specific locations on a solid support substrate.
- 14. (Previously Presented) A diagnostic kit according to claim 13, wherein said solid support is a membrane strip.

15.-22. (Cancelled)

- 23. (Previously Presented) A method for detecting antibodies present in sera from patients with rheumatoid arthritis, comprising:
- a) contacting a biological sample to be analyzed for the presence of said antibodies with a peptide of claim 1, and
- **b**) detecting the immunological complex formed between said antibodies and said peptide.

24.-27 (Cancelled)

- 28. (Currently Amended) The method of claim 23 wherein the peptide has consists of the amino acid sequence QDTIHGHPCSXXGCRPGY (SEQ ID NO: 12).
- 29. (Currently Amended) The method of claim 23 wherein the peptide has consists of the amino acid sequence QDTIVGWGCDSXGCRPGQ (SEQ ID NO: 17).